

CO-ORDINATING COMMITTEEEXPORT OF AIR/SEA RESCUE EQUIPMENT FOR CZECHOSLOVAKIA 2 ST/DMemorandum by the United Kingdom Delegation

The United Kingdom authorities have been asked to approve the export of the electronic equipment described below to Czechoslovakia. The equipment is similar, although of a simpler design, to the life saving equipment described in COCOM Document 3704 which was discussed in 22nd October, 1959, (COCOM Doc.No.3751).

2. The equipment is designed for air/sea rescue work and consists of a beacon which automatically transmits a distress signal on the international distress frequency of 121.5 Mc/s. Aircraft flying at 5,000 feet can pick up this signal at a range of 60 nautical miles, representing an effective search area of about 11,000 square miles. The equipment is also suitable for use by aviators who bale out over land, the ranges of operation to search aircraft in these circumstances being somewhat less than those over the sea.

3. The equipment consists of the following:- Two T.A.L. B.E. type B.E. 226 Very High Frequency Search and Rescue Equipments covered by I.L. 1517(A)(i): value is approximately £ 542.

Technical Summary:Circuit Arrangement:

Beacon Transmission:

Receiver Transmitter)
Transmission: }Receiver/Transmitter)
Reception: }

A total of 5 valves per equipment which function as follows:

Crystal Oscillator

Frequency Doubler

Tone Modulator

Crystal Oscillator

Frequency Doubler

Radio/Transmitter Modulator

Intermediate microphone amplifier

First microphone Amplifier

Loudspeaker Output

Intermediate Amplifier

Super-regenerative Detector

Performance:Receiver/Transmitter)
Operation: }

Beacon Transmission. Output power at switch on 0.5 watts carrier.

Output after 6 hours, 0.25 watts carrier.

Output at commencement (after 6 hours beacon transmission).

0.25 watts.

Output at end of $\frac{1}{2}$ hour operation on a 5 minute transmit 5 minute receiver cycle 0.2 watts.

Receiver Performance:

With an input of 10 micro-volts at 30% modulation 1,000 cycles, an audio output at 25 milliwatts is supplied to the windspeaker unit. A 16 decibel signal to noise ration is achieved with this input. This performance is held through the $\frac{1}{2}$ hour period of operation.

4. It is understood that the equipment will be used by a Czechoslovakian sport or "stunt" flyer and his partner, not only in Czechoslovakia but also in practice camps near the Baltic Sea in Poland and the Black Sea in Roumania.

5. Her Majesty's Government wish to authorise the shipment of this equipment as, in their view, there is no strategic significance in question. The views of member Governments are requested by September 26.

United Kingdom Delegation, PARIS.
September 6, 1960

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